VITO® X1 User Manual





VITO® X1 - User Manual



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1. Introduction

Dear VITO® customer.

thank you for choosing this product by VITO® AG.

Please read the manual carefully to familiarize yourself with the handling of your VITO® filtration system to ensure proper use. Your local dealer and the customer service are available to answer your questions and provide support.

We are grateful for comments and suggestions concerning the VITO® filtration system and/or the manual. (Please see contact information contained in this manual.)

We hope that you enjoy your VITO® oil filter system for a long time and increase the efficiency in your establishment. With VITO® you own a high-quality oil filter system from which you can expect a long life and efficient support for your work.

2. General Notes

This user manual contains important information about the handling of the VITO® X1. Please read this document carefully and before using your VITO® X1. Keep this manual easy available for more information. VITO® X1 is an oil filtration system, designed for the cleaning of frying oil / shortening.. Frying will contaminate the oil with burned particles. VITO® X1 makes it possible to clean the oil straightly out of the fryer. Filtering with VITO® X1 prolongs the lifetime of the oil. We recommend filtration with VITO® X1 once or twice a day. The VITO® X1 particle filter can be used several times before it has to be changed. As soon as the oil can't be vacuumed anymore or the filter basket for the particles is full, the content should be disposed according to local regulations.

3. Legal information

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info@VITO.ag www.VITO.ag

CEO (Chief Operating Officer): Andreas Schmidt (MBA, Dipl.-Wirt.Ing) Office of the company: Tuttlingen Trade register entry: Stuttgart HRB 451136 In cooperation with:

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- Industrial engineering with business studies Jakobstrasse 1
72458 Albstadt (Germany)

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VITO

4. Safety guidelines / symbol explanation

Wrong treatment of the VITO® can lead to dangers and injuries. The following should be observed. Potential dangers are marked with these signs:



Warning

Danger of injury if this is not observed

if oil is spilled to the floor



Risk of electric shock

by incorrect use or case opening



Caution

Important security tip



Danger of burnings

Danger of slipping

for the user of **VITO**[®] by incorrect application



Operating instruction

Information about the handling of VITO® oil filter system



Danger of hearing disorder for the user of VITO® X1



Protection class 1 Use the VITO[®] X1 only in grounded conditions

5. VITO® X1 delivery contents

- VITO® X1
- Power cord
- · Lance with tube and quick-release fastener
- Top cover
- Filter basket
- Manual
- Warranty card
- Short instruction
- Particle filter 1 piece
- Inbus key
- Wrench









6. VITO® X1 - Overview

6.1 Product description:

- O1 Switch lever Return /
 Extract
- **02** Power indicator (red LED)
- 03 Extract (blue LED)
- **04** Return (green LED)
- 05 Rotary switch (Return / Off / Extract)
- 06 Power Cord Connector
- 07 Heat Vents



- 08 Lancetube (removable)
- 09 Side-handles
- 10 Top cover with handle
- 11 Front handle
- 12 Lance with handles









Lancetube quick connector (closed) Lancetube quick connector (open)



14 + 15





Connecting Piece 16

Tank **17**

Seal 18

Filter basket inflow 19

bottom

Filter basket inflow top 20

Filter basket handles 21

Filter basket 22





Particle filter 23

Turbine intake 24

Oil-level-sensor 25









7. VITO® X1 utilization

7.1 Designated use



- VITO® is designed for commercial use.
- Follow the safety instructions! Filtration is only possible if the oil is liquid.
- VITO® should only be used by suitably trained staff!
- VITO[®] oil filter system is designed for intermittent duty

7.2 NON designated use

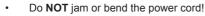


The nonobservance of the contents described in the manual can lead to damage or malfunction of VITO® or can lead to severe human injuries!!!

- VITO® is NOT approved for cleaning / filtering of liquids other than frying oil / shortening!
- Do NOT use or store VITO® outside! It will be damaged by rain, humidity or cold!
- VITO® is NOT designed for continuous duty! Risk of overheating / fire hazard!



- Do NOT cover vent slots
- Do **NOT** touch the power plug with wet hands!





- The use of VITO® is strictly prohibited for children!
- VITO® must not be operated on a connection other than protection class I (grounded)

No liability will be accepted for improper use!

8. Preparation before use

8.1 Safety Guidelines



- Clean VITO® before using it the first time. Make sure that the local voltage is conform to the voltage on the type label of VITO®!
- Do **NOT** get the power cord in contact with hot oil / shortening!
- The maximum operating temperature is 175°C / 347°F! (oil temperature)



- Do **NOT** run the pump without oil!
- Pay attention to heating elements, grids or thermal sensors in the fryer!
- Check the function of the oil level detection!



- To lift or transport VITO® only pick it up using the black side-handles!
- Use ear muffs or proper hearing protection!
- Use safety gloves!
- DO NOT RETURN THE OIL WITHOUT PLACING THE LANCE INTO THE FRYER!



8.2 Storage of VITO®

Allowed ambient / storage temperature: +10 to +35°C (50° to 95°F)

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9. Filtration process

9.1 Requirements

- Insert the filter basket 22 into the tank. Filter basket 22 inflow bottom
 must be plugged into connecting piece 16 inside the tank.
- Place the particle filter (23) in the filter basket (22)
 (See chapter 12 Particle filter change).
- Check if the seal 18 is completely (all around the machine) covered by the filter basket 22
- Put the top cover 10 on the X1 and pay attention to the correct seating.
- 5. Make sure that the lance tube quick connector 13 fits well.
- Operation without a proper set up of the filter basket 22 and correctly
 placed top cover 10 is not possible, there is no vacuum created.

The second

9.2 Operation Notes

- The filtration process and the back pumping process can be interrupted anytime by turning the switch 05 to "OFF"
- Do NOT move VITO® while filtration is in progress!
- Only use VITO® in a straight position!
- Do not operate VITO® without the filter basket! Device may be damaged!
- The Power indicator (red LED) 02 is depending on what is chosen "Return" (green LED) (4) 04 Extract" (blue LED) 03 are lit during filtration process.



9.3 Starting the suctioning process

- 1. Place VITO® securely next to the fryer
- 2. Make sure that the switch **05** is on position "OFF"
- 3. Put the lance 12 into the fryer and hold it tight or ensure a secure hold
- 4. Plug in VITO[®]. Power indicator (red LED) 02 is active
- First turn the switch lever 01 and then turn the switch 05 to position "Extract"
- 6. Indicator "Extract" (blue LED) **03** is lit during the suctioning process.
- If switch 05 is in position "Extract" and blue light 03 is not lighted, the oil-level-sensor 25 is active. => Return oil to fryer. See point 9.5 (Pumping back process) or see point 11.1 how to clean the oil-level-sensor 25.















9.4 Finishing the suction process prematurely

- 1. Take the lance 12 out of the oil.
- 2. Let the suctioning process continue for 10 seconds
- 3. Turn the switch **05** to position "OFF"
 - 4. Clean the lance 12 with a cloth
 - 5. Store the lance 12 in the lance tube
 - 6. Plug out VITO®

9.5 Starting the pumping back process

- 1. Place VITO® securely next to the fryer
- 2. Make sure that the switch **05** is on position "OFF"
- 3. Put the lance 12 into the fryer and hold it tight or ensure a secure hold
- 4. Plug in VITO[®]. Power indicator (red LED) 02 is active
- 5. First turn the switch lever **01** and then turn the switch **05** to position "Return"
- 6. Indicator "Return" (green LED) **04** is lit during the pumping back process

9.6 Finishing the pumping back process prematurely

- 1. Take the lance 12 out of the oil.
- 2. Let the pump process continue for 10 second and switch the lever 01 once to "Extract" and back to "Return"

Caution: At the end of the back pumping process air escapes out of the lance,

- which may lead to bubbles and the resultant splashing.
 - I. Turn the switch **05** to position "OFF"
- 5. Clean the lance 12 with a cloth
- 6. Insert the lance 12 in the lance tube 08 for storage
- 7. Plug out VITO®

10. Storage



DO NOT put **VITO**® into a cold storage room! Condensation will destroy the electric parts.











11. Maintenance and Service

11.1 Important Notes

- Clean the tank 17, the sensor 25 and filter basket 22 carefully every time you change the particle filter 23
- Clean VITO® only when the machine is cold
- DO NOT use abrasive cleaners
- DO NOT use a wire brush or similar
- Unscrew the power cord only in case of service!

11.2 Cleaning Preparation

- 1 Make sure that VITO® is cooled down
- 2 Open the top-cover 10
- 3 Dispose particle filter 23 (See 14.2)
- 4 Manual or machine cleaning of the filter basket 22 and top-cover 10
- Clean the remaining parts of the unit 5.

Make sure that you clean the VITO® considering the HACCP rules or your own country regulations!

11.3 Manual Cleaning

- Clean the control panel (lever, switch ect.) with a damp cloth! DO NOT use running water, because this will harm the electrical system of the device!
- 2. Clean remaining parts with soapy water.
- 3. Dry VITO® with a towel

11.4 Machine cleaning

- 1. Put filter basket 22 and cover 10 into the dishwasher. 1.
- 2. 2. Start cleaning program.
- 3. 3. Clean the control panel with a cloth!





















12. Particle Filter Change



- Change the particle filter 23 only if necessary. The time of change is based on usage of VITO® and the degree of pollution of the frying oil.
- The filter has to be changed when there is no performance or the filter is full.



Don't leave gaps between the filter and the edges of the filter basket! Filter empty



Filter full

13. Accessories

Additional accessories for your VITO® are available:





Spare filters for VITO® X1: bundle size: 1 Box (50 Pcs.) Material: cellulose



VITO® Oiltester:

- · Checks TPM of your oil
- Prevents changing oil too early
- · Ensures high quality
- Quick temperature check

Need something else? Contact us for other solutions. Our costumer support will gladly assist you with all your questions.

14. Waste disposal

14.1 Packaging disposal

- The packaging should be recycled or
 - Store the packaging carefully

14.2 Filter disposal

Used filters must be disposed according to the local regulations

14.3 Device disposal

If VITO® reaches the end of its life-cycle it must be disposed accordingly. This disposal is handled by VITO® AG as defined by law. Send VITO® to:

VITO® AG

Eltastrasse 6

78532 Tuttlingen (Germany)

For further questions please contact your local dealer or the VITO® AG customer support



14.4 WEEE (Waste Electrical and Electronic Equipment) Statement

To protect the global environment and as an environmentalist, VITO® AG must remind you that...Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on august 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life. Systemfiltration will comply with the product take back requirements at the end of the life cycle of VITO®-branded products that are sold in the EU. You can return these products to local collection points.



15. Storage recommendations for filters

During storage do not expose the particle filters to extreme temperature or humidity, for example near a heat source, air conditioning or direct sunlight. Heat, cold and humidity have a negative effect on the properties of the particle filter, especially after removing or opening the bag packaging. In any case the particle filter must not be exposed to frost, as this can cause damage to the microstructure of the filter, which impairs the functionality of the particle filter.



- Store dry at 60-65% relative humidity
- Room temperature 24°C ± 5°C (78°F ± 40°F)
- Do NOT put weight on pallets and filter parcels













- Avoid sudden temperature changes
- · Store in the cardboard packaging in sealed bag
- Maximum height of the filter stack 185cm (6 ft) on pallet

Under observance of the above conditions, the storage period will be 3 years.

16. Troubleshooting

Malfunction	Possible cause	Remedial action
Power indicator (red LED) stays inactive	 Mains plug not plugged in Mains cable is defective fuse is defective 	 Plug in VITO® Please contact service Please contact service
VITO® makes loud noises during filtration	Pump or turbine defective	Please contact service
One of the lights is not lit but device can still be started	LED defective	Please contact service
VITO® cannot be started	Control unit defective	Please contact service
Line fuse/ Ground fault circuit interrupter (GFCI) blowout	Net protection or other electronic components are blocking	Please contact service
Low back pumping performance	Pump blockedPump defectiveTube blockedTubing blocked	Clean Please contact service
No or too little vacuum flow	Particle-filter is blocked Particle-filter is full Filter basket is full to much space between cover and the tank pipe is blocked	Change particle filter Change particle filter Empty the filter basket Position the cover correctly Clean
Particles in the filtred oil	No filter inserted Filter inserted incorrectly	Insert filter Insert filter as described in the manual
No extraction and blue LED off	Oil-level-sensor dirty Max. oil level reached Filter defect	Change filterCleanReturn the oil and try again

Should other issues appear, get in contact with the customer support or your local dealer! Contact details on chapter 3 "Legal information".

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17. VITO® X1 - technical data

Nominal voltage According to country, see type sign	220 - 240 V ~ ±10% 50 bis 60Hz 100 - 120 V ~ ±10% 50 - 60Hz	
Nominal current under load	approx. 6,5 A bei 230 V approx. 10,51 A bei 115 V	
Operating temprature	Max. 175°C / 347F	
Max. power / Nominal power	1,2kW	
Weight	63kg / 138,9 lbs	
Acoustic signal	no	
Taking particles	10l / 22lb	
Tank volume	80I / 176Ib	
Noise level	aprox. 90dBA	
Dimensions (W x H x L)	610 x 450 x 890mm 24,02 x 17,72 x 35,04in	
Storage temperature	0°C/50°F to max. 30°C / 86°F	
User control	Rotary switch	
Application	Perfect for e.g. 4 x 20l (max. 80l)	
Particle filter	cellulose	
Operation mode	Intermittant operation	
Protection level	IP23	
Oil-level-sensor switching level	approx. 80l / 176lb	











18. Declaration of conformity

Issued by

VITO® AG Eltastrasse 6 78532 Tuttlingen (Germany)

for the product VITO® X1

international patent pending

The professional fat-filtration-equipment is manufactured and tested according to the following standards:

For the purposes of the EC – Machinery Directive 89/392/EEC, as amended by Directive 98/37/EC and developed in terms of the new Directive 2006/42/EC, were designed and manufactured.

This declaration applies to all identical copies of the product.

The following harmonized standards are applied:

DIN EN 292, Safety of machinery, equipment and facilities **DIN EN 60204.1**, electrical equipment for industrial machinery

The product, mentioned above, meets the following basic requirements that laid down in Council Directive on the approximation of the laws of the member states relating to electromagnetic compatibility (2004/108/EC).

The following standards are applied:

EN 55014-1:2006 electromagnetic compatibility, electromagnetic interference
EN55014-2:1997 + A1:2001 electromagnetic compatibility, immunity
EN 61003-2:2006 devices with analog inputs, limits, devices <16A</p>
EN 61003-3:2008 voltage fluctuation devices <16A</p>

Tuttlingen, October 22, 2013

Andreas Schmidt
CEO (Chief Executing Officer)
VITO® AG

19. Your notes











19. Your notes

19. Your notes





















